

Figure 27 is a vertical section along the centerline of a third embodiment of a flat panel display incorporating a multi-sheet paper feeder, in accordance with the invention;

Figure 28 is an enlarged detail view of the vertical section of Figure 27

Figure 29 is a rear perspective view of an alternative embodiment of a flat panel display including power and data connections in its base, in accordance with the invention;

Figure 30 is a rear perspective view of an alternative embodiment of a flat panel display including a power input, data inputs and data outputs in its base, in accordance with the invention;

Figure 31 is a rear perspective view of an alternative embodiment of a flat panel display including power and data connections in its base and an ink cartridge in its mounting plate, in accordance with the invention;

Figure 32 is a rear perspective view of an alternative embodiment of a flat panel display including an ink cartridge, a power input and data connections in its base, in accordance with the invention;

Figure 33 is a perspective view of a bi-lithic printhead for use in the flat panel display of Figure 8;

Figure 34 is a rear perspective view of the bi-lithic printhead of Figure 33;

Figures 35(a) to 35(d) show a side elevation, plan view, opposite side elevation and reverse plan view, respectively, of the bi-lithic printhead of Figure 33;

Figures 36 and 37 show enlarged end views of the bi-lithic printhead of Figure 33;

Figure 38 shows an enlarged detail plan view of one end of the bi-lithic printhead of Figure 33;

Figure 39 is a sectional view taken along line 45-45 in Figure 38;

Figure 40 is an enlarged detail perspective view of one end of the bi-lithic printhead of Figure 33;

Figure 41 is an enlarged detail perspective view of an opposite end of the bi-lithic printhead of Figure 33;

Figure 42 is an exploded perspective view of the bi-lithic printhead of Figure 33;

Figure 43 is a sectional view taken along line 49-49 in Figure 38;

Figure 44 is a schematic view showing the components of the flat panel display of Figure 8;

Figure 45 is a schematic view of a print engine chip incorporated in the flat panel display of Figure 8;

Figure 46 is a vertical sectional view of a single nozzle for ejecting ink, for use with the invention, in a quiescent state;

Figure 47 is a vertical sectional view of the nozzle of Figure 46 during an initial actuation phase;

Figure 48 is a vertical sectional view of the nozzle of Figure ~~46~~⁴⁷ later in the actuation phase;

Figure 49 is a perspective partial vertical sectional view of the nozzle of Figure 48, at the actuation state shown in Figure 48;

Figure 50 is a perspective vertical section of the nozzle of Figure 46, with ink omitted;

Figure 51 is a vertical sectional view of the of the nozzle of Figure 50;

Figure 52 is a perspective partial vertical sectional view of the nozzle of Figure 46, at the actuation state shown in Figure 47;

Figure 53 is a plan view of the nozzle of Figure 46;

Figure 54 is a plan view of the nozzle of Figure 46 with the lever arm and movable nozzle removed for clarity;

Figure 55 is a perspective vertical sectional view of a part of a printhead chip incorporating a plurality of the nozzle arrangements of the type shown in Figure 46.